

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

of

Attorney Docket Number

1939-001B

Complete if Known**Application Number**

09/711.634

Filing Date

11/13/2000

First Named Inventor

James Bernardin

Group Art Unit

N/A

Examiner Name

Unknown

Attorney Docket Number

1939-001B

U.S. PATENT DOCUMENTS

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
ENC		6,112,225		Kraft et al.	08/29/2000	
		6,098,091		Kisor	08/01/2000	
		5,522,070		Sumimoto	05/28/1996	
		5,410,651		Sekizawa et al.	04/25/1995	
		5,758,345		Wang	05/26/1998	
		5,109,512		Bahr et al.	04/28/1992	
		5,568,375		Rausch	10/22/1996	
		4,827,508		Shear	05/02/1989	
		5,341,477		Pitkin et al.	08/23/1994	
		5,710,884		Dedrick	01/20/1998	
		5,758,077		Danahy et al.	05/26/1998	
		5,774,668		Choquier et al.	06/30/1998	
		5,815,665		Teper et al.	09/29/1998	
		4,969,092		Shorter	11/06/1990	
		5,025,369		Schwartz	06/18/1991	
		5,136,708		Lapourtre et al.	08/04/1992	
		5,881,284		Kubo	03/09/1999	
✓		5,964,832		Kisor	10/12/1999	

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

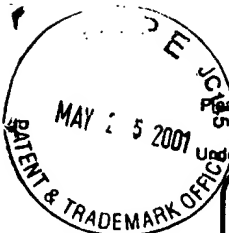
Date Considered

4/15/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**


 MAY 25 2001
 RECEIVED
 PATENT & TRADEMARK OFFICE

Please type a plus sign (+) inside this box → ☐

PTO/SB/088 (10-96)
 Approved for use through 10/31/99. OMB 0651-0031
 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/711,634
		Filing Date	11/13/2000
		First Named Inventor	James Bernardin
		Group Art Unit	N/A
		Examiner Name	Unknown
Sheet 6 of 6	Attorney Docket Number	1939-001B	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SML		MICHAEL J. LITZKOW, MIRON LIVNY, AND MATT W. MUTKA Condor - A Hunter of Idle Workstations, Department of Computer Sciences, University of Wisconsin, Madison, June 1998, Total Pages xvi+570	
		MARVIN M. THELMER AND KEITH A. LANTZ Finding Idle Machines in a Workstation-Based Distributed System IEEE Transactions on Software Engineering, Volume 15, Issue 11, November 1989	
		HENRY CLARK AND BRUCE McMillin DAWGS - A Distributed Compute Server Utilizing Idle Workstations, Department of Computer Science, University of Missouri-Rolla, 1990	
		ROBERT D. BLUMOFF AND DAVIS S. PARK, Scheduling Large-Scale Parallel Computations on Networks of Workstations, MIT Laboratory for Computer Science, Cambridge, Massachusetts, IEEE Catalog No. 94TH0667-6, Total Pages: xiii+304, August 1994	
		MEHMET CELENK AND YANG WANG, Parallel Task execution in LANs and Performance Analysis, IEEE Catalog No. 95CH35751, Total Pages xvii+742, March 1995	
		O. KREMIEN, Buying and Selling Computational Power Over the Network, Department of Math & Computer Science, Bar-Ilan University< israel, IEEE Catalog No. 95TB8110, Total Pages xviii+683, September 1995	
		CHUNGMIN CHEN, KENNETH SALEM and MIRON LIVNY, The DBC: Processing Scuebtufuc Data Over the Internet, Department of Computer Science - Universities of Maryland, Waterloo and Wisconsin-Madison, IEEE Catalog No. 96CB35954; Total Pages xviii+772, May 1996	
		JASON LOH JEN SHIUAN, KELVIN SUG, A.L. ANANDA, KOH ENG KIAT, Client-server based ray-tracer using ASTRA: an asynchronous RPC mechanism, Computer Communications, Vol. 19, Issue 5, May 1996	
		FREDY TANDIARY, SURAJ C. KOTHAS, ASHISH DIXIT, and E. WALTER ANDERSON, Bartun: Utilizing Idle Workstations for Large-Scale Computing, . Iowa Ste University, Volume 4, Issue 2, 1996	
		JOHN MORRIS AND NEIL LeFEVRE, Fault Tolerant Networks of Workstations, Department of Computer Science, University of Tasmani, Hobart, Australia, IEEE Catalog No. 96TB100074, Total Pages xvi+476, December 1996	
		CARL A. WALDSPURGER, TAD HOGG, BERNARDO A. HUBERMAN, JEFFREY O. KEPHART, and W. SCOTT STORETTA, Spawn: A Distributed Computational Economy Software Engineering, IEEE Transactions on pages 103-117, Vol. 18, Issue 2, February 1992	

Examiner Signature	<i>SML</i>	Date Considered	9/15/01
--------------------	------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside this box → ☐

PTO/SB/08B (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known	
			Application Number	09/711,634
			Filing Date	11/13/2000
			First Named Inventor	James Bernardin et al.
			Group Art Unit	N/A
			Examiner Name	Unknown
			Attorney Docket Number	1939-001B
Sheet	6	of	6	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SKH		ALBERT D. ALEXANDROV, MAXIMILIAN IBEL, KLAUS E. SCHAUER, AND CHRIS J. SCHEIMAN, Research Issues in Java-Based Global Computing, Department of Computer Science, University of California, Santa Barbara, Santa Barbara, CA 93106	
SKH		ATTILA BARTA, FLAVIO RIZZOLO, A Paradigm for Lightweight Supercomputing on the Web, Department of Computer Science, University of Toronto, Toronto, ON, M5S 3G8, Canada	
SKH		ALBERT D. ALEXANDROV, MAXIMILIAN IBEL, KLAUS E. SCHAUER, AND CHRIS J. SCHEIMAN Towards a Global Web-Based Parallel Computing Infrastructure, Department of Computer Science, University of California, Santa Barbara, Santa Barbara, CA 93106	
SKH		JEFFREY S. CHASE, FRANZ G. AMADOR, EDWARD D. LAZOWSKA, HENRY M. LEVY AND RICHARD J. LITTLEFIELD, The Amber System: Parallel Programming on a Network of Multiprocessors, Department of Computer Science, University of Washington, Seattle, WA 98195	
SKH		PARTHA DASGUPTA, ZVI M. KEDEM AND MICHAEL O. RABIN Parallel Processing on Networks of Workstations: A Fault-Tolerant, High Performance Approach, Arizona State University, New York University and Harvard University	
SKH		DAN NESSETT USENIX, Massively Distributed Systems: Design Issues and Challenges, Cambridge, Massachusetts, USA March 29-31, 1999	
SKH		ARASH BARATLOO, PARTHA DASGUPTA AND ZVI M. KEDEM CALYPSO: An Environment for Reliable Distributed Parallel Processing, New York University, Arizona University, October 2, 1995	
SKH		PARTHA DASGUPTA Parallel Processing with Windows NT Networks, Department of Computer Science and Engineering, Arizona State University, Tempe, AZ 85287-5406	

Examiner Signature	SKH	Date Considered	4/5/04
--------------------	-----	-----------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	6	of	6
-------	---	----	---

Complete if Known

Application Number	09/711,634
Filing Date	11/13/2000
First Named Inventor	James Bernardin et al.
Group Art Unit	N/A
Examiner Name	Unknown
Attorney Docket Number	1939-001B

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

[illegible]

**Examiner
Signature**

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

Please type a plus sign (+) inside this box →

PTO/SB/08A (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known	
			Application Number	09/711,634
			Filing Date	11/13/2000
			First Named Inventor	James Bernardin
			Group Art Unit	N/A
			Examiner Name	Unknown
			Attorney Docket Number	1939-001B
Sheet		of		

[illegible][illegible]

Examiner Signature	<i>SG</i>	Date Considered	4/15/04
-----------------------	-----------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

